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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/657,725	09/08/2003	Louis C. Smith	AVSI-0010 P1 (108328.0015	8903	
70578 Woodcock Was	7590 06/11/200 Shburn LLP	EXAMINER			
Cira Centre 12th Floor			BOUCHELLE, LAURA A		
2929 Arch Street Philadelphia, PA 19104			ART UNIT	PAPER NUMBER	
1 /	•			3763	
			MAIL DATE	DELIVERY MODE	
			06/11/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/657,725	SMITH ET AL.			
Office Action Summary	Examiner	Art Unit			
	LAURA A. BOUCHELLE	3763			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MERICAL STATE AND	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be till will apply and will expire SIX (6) MONTHS from, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>06 Fermannial</u> This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under Expression in the practice of the p	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1,3-15,18,19 and 27-31 is/are pending 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,3-15,18,19 and 27-31 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/6/08 has been entered.

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1, 3-15, 18, 19, 27-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dev et al (US 6451002) in view of Simon (US 2002/0010415).
- 4. Dev discloses an electroporation device comprising a plurality of needle electrodes 32, a current waveform generator 115 for generating an electric pulse, a power source, a controller capable of managing the electroporation device to expose tissue adjacent tot eh needle electrodes to a substantially constant current (col. 4, lines 26-28). The device includes an input for inputting commands into the controller (col. 7, lines 40-44) and a display (col. 7, line 45). The needle electrodes form a circular array (see Fig. 2).
- 5. Dev discloses the method as claimed including the steps of programming an electrical pulse pattern into a controller, inserting a plurality of needle electrodes into the selected tissue, injecting a solution of macromolecules into the tissue by passing a syringe needle through the

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central channel (col. 4, lines 7-10, col. 8, lines 29-37), generating a pulse of electrical energy, and applying the pulse to the needle electrodes.

- 6. Claims 1, 29 differ from Dev in calling for a waveform logger in communication with the controller. Simon teaches an electroporation device that includes a waveform logger that measures and records the voltage and current delivered through the electrodes so that the patient's response to the treatment can be compared to a baseline and monitored over time and the performance of the system and the pharmaceutical can be assessed (page 6, paragraph 0060). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify the device of Dev to include a waveform logger as taught by Simon so that the performance of the treatment can be assessed.
- 7. Claim 3 further differs from Dev in calling for an impedance tester. Simon teaches that the device comprises an impedance tester to ensure that the electrodes are in contact with the skin to prevent an output voltage increase that can damage the device (page 7, paragraph 0063). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify the device of Dev to include an impedance tester as taught by Simon to ensure that the electrodes are in contact with the skin to prevent a voltage increase that may damage the system. The device includes a handle 106 to which the electrode needles are fastened, and an activation switch 104 (col. 7, lines 50-57).
- 8. Claim 5 further differs from Dev in calling for the input device to include a keypad. Simon teaches that the device includes a user input in the form of a keypad for convenience and ease of use (page 7, paragraph 0067). Therefore, it would have been obvious to one of ordinary

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skill in the art at the time of invention to modify the device of Dev to include a keypad as taught by Simon to increase convenience and ease of use.

- 9. Claims 9, 10 differ from Dev in view of Simon in calling for an optical serial port or an infrared port. However, wireless communication is well known in the medical device art in general and is provided in order to make use of the device easier for the patient and medical technician. At the time of invention, it would have been obvious to incorporate an optical serial port or an IR port into the invention to Dev in view of Simon. These devices are well known in the art and the motivation for the incorporation would have been known generally by one skilled in the art to make use of the device easier for the patient and the medical technician and thereby enhancing the device in general.
- 10. Claims 11, 12 differ from Dev in calling for memory in communication with the controller. Simon teaches that the controller includes memory that allows the signals to be generated and controlled (page 14, paragraph 0139). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify the device of Dev to include a memory as taught by Simon so that the controller can generate the signal.
- 11. Claim 13 calls for the power source to be a battery. Dev and Simon are silent as to the source of power for the device. However, it is well known in the medical device art to use a battery to power an electrical device because it allows mobility of the patient and the device and eliminates cumbersome electrical cords. It would have been obvious to one of ordinary skill in the art at the time of invention to modify the device of Dev in view of Simon to include a battery as the power source as is well known in the medical arts to allow for the device to be used in any location.

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12. Claim 19 calls for the circular array to be about 1.0 cm in diameter. Dev discloses that the circular array of needles may have a diameter suitably selected to provide the desired diameter to position around a tumor or other tissue to be treated (col. 4, lines 59-64). However, Dev fails to disclose the specific claimed diameter. It would have been obvious to one of ordinary skill in the art at the time of invention to modify the device of Dev in view of Simon to have a diameter of about 1.0 cm because Dev clearly contemplates that the device is capable of having any diameter so that the diameter can be suitable to meet the needs of the area to be treated.

- 13. Claim 27 differs from Dev in calling the step of measuring the resistance. Simon teaches the step of measuring resistance to ensure that the electrodes are in contact with the skin to prevent an output voltage increase that can damage the device (page 7, paragraph 0063). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify the method of Dev to include the step of measuring resistance as taught by Simon to ensure that the electrodes are in contact with the skin to prevent a voltage increase that may damage the system. The device includes a handle 106 to which the electrode needles are fastened, and an activation switch 104 (col. 7, lines 50-57).
- 14. Claim 28 differs from Dev in calling for the step of recording data using a waveform logger in communication with the controller. Simon teaches an electroporation device that includes a waveform logger that measures and records the voltage and current delivered through the electrodes so that the patient's response to the treatment can be compared to a baseline and monitored over time and the performance of the system and the pharmaceutical can be assessed (page 6, paragraph 0060). Therefore, it would have been obvious to one of ordinary skill in the

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art at the time of invention to modify the method of Dev to include recording data using a waveform logger as taught by Simon so that the performance of the treatment can be assessed.

Response to Arguments

15. Applicant's arguments with respect to claims 1, 3-15, 18, 19, 27-31 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAURA A. BOUCHELLE whose telephone number is (571)272-2125. The examiner can normally be reached on Monday-Friday 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nicholas Lucchesi can be reached on 517-272-4977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Laura A Bouchelle Examiner Art Unit 3763 Application/Control Number: 10/657,725

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/L. A. B./ Examiner, Art Unit 3763

/Nicholas D Lucchesi/

Supervisory Patent Examiner, Art Unit 3763